This listing of claims will replace all prior versions, and listings, of claims in the

application.

Listing of Claims:

1. (Currently Amended) A wireless digital audio music system for spread

spectrum communication of an audio music signal from the analog headphone jack

connected to a battery powered spread spectrum transmitter and received by a battery

powered spread spectrum headphone receiver comprising:

an analog headphone jack from an analog audio music source in communication

with—a the battery powered spread spectrum digital transmitter having a transmit

antenna;

said battery powered digital transmitter converts an analog audio music signal

from said existing analog headphone jack to a digital signal using an analog-to-digital

converter (ADC) ADC in communication with an encoder;

said encoder in communication with a channel encoder;

said channel encoder in communication with a digital modulator:

said digital modulator in communication with a spread spectrum communication

modulator that utilizes a code generator to create a unique codeword hop pattern for

each individual user;

said spread spectrum communication modulator in communication with a the

transmit antenna that transmits at a radio frequency of approximately 2.4 GHz for

receipt by a receiving antenna of the battery powered spread spectrum headphone receiver;

said receiving antenna in communication with a spread spectrum communication demodulator;

said spread spectrum communication demodulator in communication with a receiver code generator and with a digital demodulator;

said digital demodulator in communication with a channel decoder;

said channel decoder in communication with a receiver decoder;

said receiver decoder in communication with a <u>digital-to-analog converter</u>
(DAC) DAC;

said DAC in communication with a low pass filter to pass the analog music signal in the approximate frequency band of 20 Hz to 20 kHz; and

said low pass filter passing the analog music signal which will be amplified for processing to a speaker headphone set to provide high quality music for listening by a single user wearing the headphones. battery powered spread spectrum headphone receiver.

Claims 2 – 3 (canceled).

4. (Currently Amended) A method for battery powered wireless communication transmission and reception of high fidelity audio music between a battery operated digital transmitter and a battery operated digital receiver headphone

comprising the steps of:

connecting the plug attached to said battery operated digital transmitter to the existing analog headphone jack of an audio music source;

converting a <u>an analog</u> music audio signal to a digital communication signal using an <u>analog-to-digital converter (ADC) ADC</u> in communication with an encoder;

encoding the communication signal using channel encoding;

modulating the digital communication signal using a digital modulator;

creating a spread spectrum signal using a code generator to modulate a unique codeword hop pattern for each individual user;

transmitting said spread spectrum signal at a radio frequency of approximately 2.4 GHz;

receiving said spread spectrum signal at said battery operated <u>digital</u> receiver headphones;

demodulating said spread spectrum signal;

demodulating said digital communication signal;

channel decoding of said digital communication signal;

converting said digital communication signal back to said analog music audio signal using a decoder in communication with a <u>digital-to-analog converter (DAC)</u>

DAC; and

communicating said analog music audio signal to a headphone speaker within the headphone receiver said battery operated digital receiver headphone.

Claim 5 (canceled).

6. (Currently Amended) An audio music digital wireless transmitter for spread spectrum communication of an audio music signal, comprising:

an analog headphone <u>plug for attachment to an existing analog headphone</u> jack from <u>of</u> an audio music source, <u>said analog headphone plug</u> in communication with a battery powered digital transmitter;

said battery powered digital transmitter being configured to convert an analog audio music signal from said existing analog headphone jack to a digital signal using an analog-to-digital converter (ADC) ADC in communication with an encoder;

said encoder in communication with a channel encoder;

said channel encoder in communication with a digital modulator;

said digital modulator in communication with a spread spectrum communication modulator that utilizes a code generator to create a unique codeword hop pattern for each individual user; and

said spread spectrum communication modulator in communication with a transmit antenna that transmits at a radio frequency of approximately 2.4 GHz for receipt by a receiving antenna.

- 7. (Currently Amended) An audio music digital wireless <u>headphone</u> receiver for spread spectrum communication of an audio music signal, comprising:
 - a receiving antenna in communication with a spread spectrum communication

demodulator;

said spread spectrum communication demodulator in communication with a code

generator configured to create a unique codeword hop pattern for each individual user;

said digital demodulator in communication with a channel decoder;

said channel decoder in communication with a decoder;

said decoder in communication with a digital-to-analog converter (DAC) DAC

to create an analog music signal;

said DAC in communication with a low pass filter to pass the analog music

signal in the approximate frequency band of 20 Hz to 20kHz; and

said low pass filter passing the analog music signal which will be amplified for

processing to a speaker headphone set to provide high quality music for listening by a

single user wearing the headphones headphone receiver.

Claims 8 – 9 (canceled).

10. (Currently Amended) A wireless digital audio music system for spread

spectrum communication of an audio music signal from the analog headphone jack

connected to a battery powered spread spectrum transmitter and received by a battery

powered spread spectrum headphone receiver comprising:

an existing analog headphone jack from an audio music source in

communication with a the battery powered spread spectrum digital transmitter having a

transmit antenna;

said battery powered spread spectrum digital transmitter converts an analog

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audio music signal from said existing analog headphone jack to a digital signal using an analog-to-digital converter (ADC)-ADC in communication with an encoder;

said encoder in communication with a channel encoder that is configured to send

encoded symbols that are compatible with a Viterbi decoder;

said channel encoder in communication with a digital modulator;

said digital modulator in communication with a spread spectrum communication

modulator that utilizes a code generator to create a unique codeword hop pattern for

each individual user;

said spread spectrum communication modulator in communication with a the

transmit antenna that transmits at a radio frequency of approximately 2.4 GHz for

receipt by a receiving antenna coupled to said battery powered spread spectrum

headphone receiver;

said receiving antenna in communication with a spread spectrum communication

demodulator;

said spread spectrum communication demodulator in communication with a

receiver code generator and with a digital demodulator;

said digital demodulator in communication with a Viterbi decoder;

said Viterbi decoder in communication with a receiver decoder;

said receiver decoder in communication with a digital-to-analog converter

(DAC) DAC;

said DAC in communication with a low pass filter to pass the analog music

signal in the approximate frequency band of 20 Hz to 20 kHz; and

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said low pass filter passing the analog music signal which will be amplified for processing to a speaker headphone set to provide high quality music for listening by a single user wearing the headphones said battery powered spread spectrum headphone receiver.

11. (Currently Amended) An audio music digital wireless receiver for spread spectrum communication of an audio music signal to be received by a battery powered spread spectrum headphone receiver comprising:

a receiving antenna in communication with a spread spectrum communication demodulator;

said spread spectrum communication demodulator in communication with a code generator configured to create a unique codeword hop pattern for each individual user;

said digital demodulator in communication with a Viterbi decoder;

said Viterbi decoder in communication with a decoder;

said decoder in communication with a DAC;

said DAC in communication with a low pass filter to pass the analog music signal in the approximate frequency band of 20 Hz to 20kHz; and

said low pass filter passing the analog music signal which will be amplified for processing to a speaker headphone set to provide high quality music for listening by a single user wearing the headphones battery powered spread spectrum headphone receiver.

12. (Currently Amended). A wireless digital audio music system for spread spectrum communication of an audio music signal from the analog headphone jack connected to a battery powered spread spectrum transmitter and received by a battery powered spread spectrum headphone receiver comprising:

an analog headphone jack from an audio music source in communication with a battery powered digital transmitter having a transmit antenna;

said battery powered digital transmitter converts an the audio music signal from said existing analog headphone jack to a digital signal using an analog-to-digital converter (ADC) ADC in communication with an encoder;

said encoder in communication with a channel encoder;

said channel encoder in communication with a digital modulator;

said digital modulator in communication with a spread spectrum communication modulator that utilizes a code generator to create a unique <u>codeword</u> hop pattern for an individual user;

said spread spectrum communication modulator in communication with a the transmit antenna that transmits at a radio frequency of approximately 2.4 GHz for receipt by a receiving antenna;

said receiving antenna, of said battery powered spread spectrum headphone receiver, in communication with a spread spectrum communication demodulator;

- a receiver code generator configured to create a the unique hop pattern codeword for each individual user;
 - a 2.4 GHz direct conversion receiver that includes a spread spectrum

communication demodulator;

said spread spectrum communication demodulator in communication with said

receiver code generator and with a digital demodulator;

said digital demodulator in communication with a channel decoder;

said channel decoder in communication with a receiver decoder;

said receiver decoder in communication with a DAC;

said DAC in communication with a low pass filter to pass the analog music

signal in the approximate frequency band of 20 Hz to 20 kHz; and

said low pass filter passing analog music signal which will be amplified for

processing to a speaker headphone set to provide high quality music for listening by a

single user wearing the headphones battery powered spread spectrum headphone

receiver.

13. (Currently Amended) An audio music digital wireless receiver for spread

spectrum communication of an audio music signal, comprising:

a receiving antenna in communication with a 2.4 GHz direct conversion

receiver, wherein the direct conversion receiver includes a spread spectrum

communication demodulator in communication with a code generator, said code

generator being configured to create a unique codeword hop pattern for each individual

user;

said digital demodulator in communication with a channel decoder;

said channel decoder in communication with a decoder;

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said decoder in communication with a digital-to-analog converter (DAC) DAC;

said DAC in communication with a low pass filter to pass the analog music

signal in the approximate frequency band of 20 Hz to 20kHz; and

said low pass filter passing the analog music signal which will be amplified for

processing to a speaker headphone set to provide high quality music for listening by a

single user wearing the headphones wireless receiver.

14. (Currently Amended) A wireless digital audio system, comprising:

at least one audio source;

at least one digital audio transmitter operatively coupled to said at least one

audio source;

at least one audio receiver adapted for digital wireless communication with said

at least one audio transmitter and utilizing fuzzy logic to optimize digital signal

processing, each of said at least one digital audio transmitter and receiver being

configured for code division multiple access (CDMA) communication, the at least one

receiver processing a CDMA signal having a CDMA communication configuration

from the at least one audio transmitter to produce a processed CDMA signal; and

at least one module adapted to audibly reproduce said processed CDMA signal,

said CDMA communication configuration providing a user with independent audio

reproduction free of interference from other users or wireless devices.

15. (Currently Amended) A wireless digital audio system, comprising:

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at least one audio source;

at least one digital audio transmitter operatively coupled to said at least one

audio source;

at least one audio receiver adapted for digital wireless communication with said

at least one audio transmitter and utilizing fuzzy logic to optimize digital signal

processing, each of said at least one digital audio transmitter and receiver being

configured for code division multiple access (CDMA) communication, the at least one

receiver processing a CDMA signal having a CDMA communication configuration

from the at least one audio transmitter to produce a processed CDMA signal;

at least one module adapted to amplify said processed CDMA signal; and

at least one module adapted to audibly reproduce said amplified signal, said

CDMA communication configuration providing a user with independent audio

reproduction free of interference from other users or wireless devices.

16. (Previously Presented) The wireless digital audio system of Claim 15,

wherein said at least one signal amplifying module includes at least one power

amplifier, said at least one power amplifier being configured to provide a low distortion

audio signal output.

17. (Previously Presented) The wireless digital audio system of Claim 16,

wherein said at least one audible reproducing module includes at least one headphone

speaker, said at least one headphone speaker receiving said low distortion audio signal

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output from said at least one power amplifier.

18. (Previously Presented) The wireless digital audio system of Claim 14, wherein said at least one audible reproducing module includes at least one headphone speaker.

19. (Previously Presented) A wireless digital audio system, comprising:

at least one audio source;

at least one digital audio transmitter operatively coupled to said at least one audio source, said at least one audio transmitter comprising:

a first analog low pass filter receiving audio output from said at least one audio source;

a digital low pass filter;

an analog-to-digital converter (ADC) operatively coupled between said first analog and digital low pass filters;

a first encoder receiving output from said digital low pass filter and being configured to reduce intersymbol interference (ISI);

a second channel encoder operatively coupled to said first encoder and adapted to reduce transmission errors;

a digital modulator operatively coupled to said second channel encoder;

a differential phase shift key (DPSK) module receiving output from said

digital modulator and being configured for direct sequence spread spectrum (DSSS) communication, said DPSK module transmitting a corresponding DSSS signal;

at least one audio receiver configured for digital wireless communication with said at least one audio transmitter and utilizing embedded fuzzy logic to optimize digital signal processing, said at least one audio receiver comprising:

a band pass filter (BPF) configured to process said transmitted DSSS signal;

a direct conversion module receiving output from said BPF and being configured to capture the correct bit sequence embedded in said processed DSSS signal;

a digital demodulator adapted to process output from said direct conversion module;

a Viterbi decoder operatively coupled to said digital demodulator and generating a corresponding digital output;

a source decoder processing said digital output from said Viterbi decoder and being configured to decode the digital signal encoded by said first encoder;

a second analog low pass filter; and

a digital-to-analog converter (DAC) operatively coupled between said source decoder and said second analog low pass filter, said second analog low pass filter generating an audio output corresponding to the decoded and converted digital signal; and

at least one module adapted to reproduce said generated audio output, said audio output having been wirelessly transmitted from said at least one audio source to a user

without interference from other users or wireless devices.

20. (Previously Presented) The wireless digital audio system of Claim 19,

wherein said BPF is a wideband BPF.

21. (Previously Presented) The wireless digital audio system of Claim 19,

wherein said modulator is a 64-Ary modulator.

22. (Previously Presented) The wireless digital audio system of Claim 19,

wherein said demodulator is a 64-Ary demodulator.

23. (Previously Presented) The wireless digital audio system of Claim 19,

wherein said generated audio output is in the approximate range of 20 Hz to 20 kHz.

24. (Currently Amended) The wireless digital audio system of Claim 19,

wherein said spread spectrum transmitted DSSS signal is transmitted at about 2.4 GHz

via an omni-directional antenna.

25. (Currently Amended) The wireless digital audio system of Claim 24,

wherein said spread spectrum transmitted DSSS signal is transmitted at a power of

about 100 milliwatts or less.

26. (Previously Presented) The wireless digital audio system of Claim 19, wherein said ADC is a 4-bit analog-to-digital converter.

- 27. (Previously Presented) The wireless digital audio system of Claim 19, wherein said at least one audio source is a portable audio player.
- 28. (Previously Presented) The wireless digital audio system of Claim 19, wherein said at least one audio reproducing module includes at least one headphone speaker.
- 29. (Previously Presented)The wireless digital audio system of Claim 19, wherein said BPF is operatively coupled to at least one antenna configured to receive said transmitted DSSS signal.
 - 30. (Previously Presented) A wireless digital audio system, comprising: at least one audio source;
- at least one digital audio transmitter operatively coupled to said at least one audio source, said at least one audio transmitter comprising:
- a first analog low pass filter receiving audio output from said at least one audio source;
 - a digital low pass filter;

an analog-to-digital converter (ADC) operatively coupled between said

first analog and digital low pass filters;

a first encoder receiving output from said digital low pass filter and

being configured to reduce intersymbol interference (ISI);

a second channel encoder operatively coupled to said first encoder and

adapted to reduce transmission errors;

a digital modulator operatively coupled to said second channel encoder;

and

a differential phase shift key (DPSK) module receiving output from said

digital modulator and being configured for direct sequence spread spectrum (DSSS)

communication, said DPSK module transmitting a corresponding DSSS signal;

at least one audio receiver configured for digital wireless communication with

said at least one audio transmitter and utilizing embedded fuzzy logic to optimize digital

signal processing, said at least one audio receiver comprising:

a band pass filter (BPF) configured to process said transmitted DSSS

signal;

a direct conversion module receiving output from said BPF and being

configured to capture the correct bit sequence embedded in said processed DSSS signal;

a digital demodulator adapted to process output from said direct

conversion module;

a Viterbi decoder operatively coupled to said digital demodulator and

generating a corresponding digital output;

a source decoder processing said digital output from said Viterbi decoder

and being configured to decode the digital signal encoded by said first encoder;

a second analog low pass filter; and

a digital-to-analog converter (DAC) operatively coupled between said

source decoder and said second analog low pass filter, said second analog low

pass filter generating an audio output corresponding to the decoded and

converted digital signal;

at least one module adapted to amplify said generated audio output; and

at least one module adapted to reproduce said amplified audio output, said audio

output having been wirelessly transmitted from said at least one audio source to a user

without interference from other users or wireless devices.

31. (Previously Presented) The wireless digital audio system of Claim 30,

wherein said at least one audio amplifying module includes at least one power

amplifier, said at least one power amplifier being configured to provide a low distortion

audio signal output.

32. (Previously Presented) The wireless digital audio system of Claim 31,

wherein said at least one audio reproducing module includes at least one headphone

speaker, said at least one headphone speaker receiving said low distortion audio signal

output from said at least one power amplifier.

33. (Previously Presented) A wireless digital audio system, comprising:

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at least one audio source;

at least one digital audio transmitter operatively coupled to said at least one

audio source;

at least one audio receiver adapted for digital wireless communication with said

at least one audio transmitter, each of said at least one digital audio transmitter and

receiver being configured for code division multiple access (CDMA) communication;

and

at least one module adapted to audibly reproduce said processed CDMA signal,

said CDMA communication configuration providing a user with independent audio

reproduction free of interference from other users or wireless devices.

34. (Previously Presented) A wireless digital audio system, comprising:

at least one audio source;

at least one digital audio transmitter operatively coupled to said at least one

audio source;

at least one audio receiver adapted for digital wireless communication with said

at least one audio transmitter, each of said at least one digital audio transmitter and

receiver being configured for code division multiple access (CDMA) communication;

at least one module adapted to amplify said processed CDMA signal; and

at least one module adapted to audibly reproduce said amplified signal, said

CDMA communication configuration providing a user with independent audio

reproduction free of interference from other users or wireless devices.

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35. (Previously Presented) The wireless digital audio system of Claim 14,

wherein said at least one audio source provides analog output in the approximate range

of 20 Hz to 20 kHz.

36. (Previously Presented) The wireless digital audio system of Claim 15,

wherein said at least one audio source provides analog output in the approximate range

of 20 Hz to 20 kHz.

37. (Previously Presented) The wireless digital audio system of Claim 33,

wherein said at least one audio source provides analog output in the approximate range

of 20 Hz to 20 kHz.

38. (Previously Presented) The wireless digital audio system of Claim 34,

wherein said at least one audio source provides analog output in the approximate range

of 20 Hz to 20 kHz.

39. (Previously Presented) The wireless digital audio system of Claim 14,

wherein at least one of said digital audio transmitter and receiver is battery-powered.

40. (Previously Presented) The wireless digital audio system of Claim 15,

wherein at least one of said digital audio transmitter and receiver is battery-powered.

- 41. (Previously Presented) The wireless digital audio system of Claim 33, wherein at least one of said digital audio transmitter and receiver is battery-powered.
- 42. (Previously Presented) The wireless digital audio system of Claim 34, wherein at least one of said digital audio transmitter and receiver is battery-powered.
 - 43. (Previously Presented) A wireless digital audio system, comprising: at least one audio source;
- at least one digital audio transmitter operatively coupled to said at least one audio source, said at least one audio transmitter comprising:
- a first analog low pass filter receiving audio output from said at least one audio source;
 - a digital low pass filter;
- an analog-to-digital converter (ADC) operatively coupled between said first analog and digital low pass filters;
- a first encoder receiving output from said digital low pass filter and being configured to reduce intersymbol interference (ISI);
- a second channel encoder operatively coupled to said first encoder and adapted to reduce transmission errors;
- a digital modulator operatively coupled to said second channel encoder;

a differential phase shift key (DPSK) module receiving output from said digital modulator and being configured for direct sequence spread spectrum (DSSS) communication, said DPSK module transmitting a corresponding DSSS signal;

at least one audio receiver configured for digital wireless communication with said at least one audio transmitter, said at least one audio receiver comprising:

- a band pass filter (BPF) configured to process said transmitted DSSS signal;
- a direct conversion module receiving output from said BPF and being configured to capture the correct bit sequence embedded in said processed DSSS signal;
 - a digital demodulator adapted to process output from said direct conversion module;
 - a Viterbi decoder operatively coupled to said digital demodulator and generating a corresponding digital output;
 - a source decoder processing said digital output from said Viterbi decoder and being configured to decode the digital signal encoded by said first encoder;
 - a second analog low pass filter; and
 - a digital-to-analog converter (DAC) operatively coupled between said source decoder and said second analog low pass filter, said second analog low pass filter generating an audio output corresponding to the decoded and converted digital signal; and

at least one module adapted to reproduce said generated audio output, said audio output having been wirelessly transmitted from said at least one audio source to a user

without interference from other users or wireless devices.

44. (Previously Presented) A wireless digital audio system, comprising:

at least one audio source;

at least one digital audio transmitter operatively coupled to said at least one audio source, said at least one audio transmitter comprising:

a first analog low pass filter receiving audio output from said at least one audio source;

a digital low pass filter;

an analog-to-digital converter (ADC) operatively coupled between said first analog and digital low pass filters;

a first encoder receiving output from said digital low pass filter and being configured to reduce intersymbol interference (ISI);

a second channel encoder operatively coupled to said first encoder and adapted to reduce transmission errors;

a digital modulator operatively coupled to said second channel encoder;

a differential phase shift key (DPSK) module receiving output from said digital modulator and being configured for direct sequence spread spectrum (DSSS) communication, said DPSK module transmitting a corresponding DSSS signal;

at least one audio receiver configured for digital wireless communication with said at least one audio transmitter, said at least one audio receiver comprising:

- a band pass filter (BPF) configured to process said transmitted DSSS signal;
- a direct conversion module receiving output from said BPF and being configured to capture the correct bit sequence embedded in said processed DSSS signal;
 - a digital demodulator adapted to process output from said direct conversion module;
 - a Viterbi decoder operatively coupled to said digital demodulator and generating a corresponding digital output;
 - a source decoder processing said digital output from said Viterbi decoder and being configured to decode the digital signal encoded by said first encoder;
 - a second analog low pass filter; and
 - a digital-to-analog converter (DAC) operatively coupled between said source decoder and said second analog low pass filter, said second analog low pass filter generating an audio output corresponding to the decoded and converted digital signal;
- at least one module adapted to amplify said generated audio output; and at least one module adapted to reproduce said amplified audio output, said audio output having been wirelessly transmitted from said at least one audio source to a user without interference from other users or wireless devices.
- 45. (Previously Presented) The wireless digital audio system of Claim 43, wherein said at least one audio source provides analog output in the approximate range

of 20 Hz to 20 kHz.

46. (Previously Presented) The wireless digital audio system of Claim 44,

wherein said at least one audio source provides analog output in the approximate range

of 20 Hz to 20 kHz.

47. (Previously Presented) The wireless digital audio system of Claim 43,

wherein at least one of said digital audio transmitter and receiver is battery-powered.

48. (Previously Presented) The wireless digital audio system of Claim 44,

wherein at least one of said digital audio transmitter and receiver is battery-powered.

49. (Previously Presented) The wireless digital audio system of Claim 43,

wherein said at least one audio source is a portable music player.

50. (Previously Presented) The wireless digital audio system of Claim 44,

wherein said at least one audio source is a portable music player.

51. (Previously Presented) A wireless digital audio transmitter, comprising:

a first analog low pass filter receiving audio output from at least one

audio source:

a digital low pass filter;

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an analog-to-digital converter (ADC) operatively coupled between said first analog and digital low pass filters;

- a first encoder receiving output from said digital low pass filter and being configured to reduce intersymbol interference (ISI);
- a second channel encoder operatively coupled to said first encoder and adapted to reduce transmission errors;
- a digital modulator operatively coupled to said second channel encoder; and
 - a differential phase shift key (DPSK) module receiving output from said digital modulator and being configured for direct sequence spread spectrum (DSSS) communication, said DPSK module transmitting a corresponding DSSS signal.
 - 52. (Previously Presented) A wireless digital audio receiver, comprising:
 - a band pass filter (BPF) configured to process a transmitted DSSS signal;
- a direct conversion module receiving output from said BPF and being configured to capture the correct bit sequence embedded in said processed DSSS signal;
 - a digital demodulator adapted to process output from said direct conversion module;
 - a Viterbi decoder operatively coupled to said digital demodulator and generating a corresponding digital output;
 - a source decoder receiving said digital output from said Viterbi decoder and being configured to decode the digital signal encoded therein;

- a second analog low pass filter; and
- a digital-to-analog converter (DAC) operatively coupled between said source decoder and said second analog low pass filter, said second analog low pass filter generating an audio output corresponding to the decoded and converted digital signal, said audio output having been wirelessly transmitted to a user without interference from other users or wireless devices.
- 53. (Previously Presented) A wireless digital audio receiver utilizing embedded fuzzy logic to optimize digital signal processing, comprising:
 - a band pass filter (BPF) configured to process a transmitted DSSS signal;
- a direct conversion module receiving output from said BPF and being configured to capture the correct bit sequence embedded in said processed DSSS signal:
 - a digital demodulator adapted to process output from said direct conversion module;
 - a Viterbi decoder operatively coupled to said digital demodulator and generating a corresponding digital output;
 - a source decoder receiving said digital output from said Viterbi decoder and being configured to decode the digital signal encoded therein;
 - a second analog low pass filter; and
 - a digital-to-analog converter (DAC) operatively coupled between said source decoder and said second analog low pass filter, said second analog low pass filter generating an audio output corresponding to the decoded and

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converted digital signal, said audio output having been wirelessly transmitted to a user without interference from other users or wireless devices.